

**Amendments to the Claims:** This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims

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1. (Currently Amended) A multi-wavelength and multi-layer optical disc comprising:

a substrate in which components of at least one wavelength light beam are recorded by modulating transmissivity of the substrate for each of said components, wherein information layers of a substrate are located within a focal depth of an objective lens for reading the optical disc;

a reflective layer on the substrate to reflect the modulated optical signal; and

a protective layer on the reflective layer; and

a photochromic super-resolution mask layer sandwiched between the substrate and the reflective layer, the photochromic super-resolution mask layer comprising high-order non-linear photochromic materials thus selectively reducing a read-writing facular size of one of the wavelength light beams, wherein all the information layers and the mask layer are located within the focal depth of the objective lens.

2. (Canceled)

3. (Currently Amended) The multi-wavelength and multi-layer optical disc as in claim 1, wherein the information layers of the substrate comprise photochromic materials including organic compounds selected from a group consisting of spiropyran, spirooxazine, fulgide or azo, or the mixture thereof.

4. (Previously Presented) The multi-wavelength and multi-layer optical disc as in claim 1, wherein the information layers are pre-stamped with information pits.

5. (Currently Amended) A multi-wavelength and multi-layer optical disc comprising:

a substrate;

multiple recording layers on the substrate, wherein said multiple recording layers comprise at least one kind of photochromic material, said recording layers being orderly arranged one by one on the substrate and said multiple recording layers located within the focal depth of a objective lens for reading or writing the disc;

a reflective layer on the recording layers to reflect the light signal transmitted from the recording layer; and

a protective layer on the reflective layer; and

a photochromic super-resolution mask layer selectively reducing a read-writing facular size of light beams, wherein at least one of said multiple recording layers is sandwiched between the photochromic super-resolution mask layer and the reflective layer; and wherein the recording layers and the mask layer are located within the focal depth of the objective lens.

6. (Canceled)

7. (Previously Presented) The multi-wavelength and multi-layer optical disc as in claim 5 wherein at least one recording layer of said multiple recording layers comprises a compound of at least two kinds of photochromic materials.

8. (Previously Presented) The multi-wavelength and multi-layer optical disc as in claim 5 wherein said at least one recording layer comprises an organic compound of at least two components selected from a group consisting of spiropyran, spirooxazine, fulgide or axo, or the mixture thereof.

9. (Canceled)

10. (Previously Presented) The multi-wavelength and multi-layer optical disc as in claim 5 wherein said photochromic super-resolution mask layer comprises organic compounds of at least two components selected from a group consisting of spiropyran or spirooxazine or fulgide or azo, or the mixture thereof.

11. (Previously Presented) The multi-wavelength and multi-layer optical disc as in claim 5 wherein the thickness of said at least one recording layer is between 5nm - 100nm.

12. - 26. (Canceled)